

Abstract

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An underground storage tank 1 is lined in situ by first clearing the inner surface of the tank using water jetting. The surface is then inspected and grit blasted. A corrosion barrier coating 16 in the form of glassflake epoxy resin is applied to a minimum dry film thickness of 1000 microns. An adhesive is applied to the barrier coating 16 and sheets of an HDPE interstitial grid 10 are bonded to the adhesive forming an air gap of about 5 mm. A pliable glass reinforced plastic layer 15 is laid upon the grid 10. The GRP material is exposed to UV lamps to form an impermeable shell within the tank. A surface coating layer 2 may be applied. A leak detector 40, 41 is installed in the interstitial space defined by the grid 10.

Fig. 6